



PTO/SB/08A (10-01)

Approved for use through 10/31/2002.OMB 0651-0031

U. S. Patent and Trademark Office: U. S. DEPARTMENT OF COMMERCE

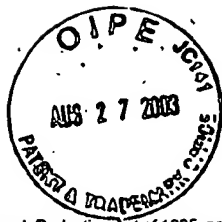
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/988,627
				Filing Date	November 20, 2001
				First Named Inventor	Glen Hush
				Art Unit	2824
				Examiner Name	N. Nguyen
Sheet	1	of	3	Attorney Docket Number	M4065.0478/P478

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.†	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code² (If known)				
NRN	AA	2000/0072188	App	6/2002	Gilton	
	AB	2002/0106849	APP	8/8/2002	Moore	
	AC	2002/0123169	App	9/2002	Moore et al.	
	AD	2002/0123170	APP	9/5/2002	Moore et al.	
	AE	2002/0123248	App.	9/2002	Moore et al.	
	AF	2002/0127886	APP	9/12/2002	Moore et al.	
	AG	2002/0163828	APP	11/2002	Krieger et al	
	AH	2002/0168820	App.	11/2002	Kozicki	
	AI	2002/0190350	APP	12/19/2002	Kozicki	
	AJ	2003/0001229	APP	1/2/2003	Moore et al.	
	AK	2003/0027416	APP	2/6/2003	Moore	
	AL	2003/0035314		02/20/03	Kozicki	
	AM	2003/0035315		02/20/03	Kozicki	
	AN	2003/0107105	A1	06/12/03	Kozicki	
	AO	3,622,319		11/1971	Sharp	
	AP	3,743,847		7/1973	Boland	
	AQ	4,112,512		9/5/1978	Arzubi et al.	
	AR	4,269,935		5/1981	Masters et al.	
	AS	4,312,938		1/1982	Drexler, et al.	
	AT	4,316,946		1/1982	Masters, et al.	
	AU	4,320,191		3/1982	Yoshikawa et al.	
	AV	4,405,710		9/1983	Balasubramanyam et al.	
	AW	4,419,421		12/1983	Wichelhaus, et al.	
	AX	4,499,557		2/1985	Holmberg et al.	
	AY	4,671,618		6/87	Wu et al.	
	AA1	4,795,657		1/1989	Formigoni et al.	
	AB1	4,800,526		1/89	Lewis	
	AC1	4,847,674		7/1989	Sliwa et al.	
	AD1	5,177,567		1/1993	Klersy et al.	
	AE1	5,219,788		6/1993	Abernathay et al.	
	AF1	5,238,862		8/1993	Blalock et al.	
	AG1	5,272,359		12/93	Nagasubramanian et al.	
	AH1	5,314,772		5/24/1994	Kozicki	
	AI1	5,315,131		5/1994	Kishimoto et al.	
	AJ1	5,350,484		9/1994	Gardner et al.	
	AK1	5,360,981		11/1994	Owen et al.	
	AL1	5,512,328		4/1996	Yoshimura et al.	
	AM1	5,512,773		4/1996	Wolf et al.	
	AN1	5,699,293		12/16/1997	Tehrani et al.	
	AO1	5,726,083		3/1998	Takaishi	
	AP1	5,818,749		10/6/98	Harshfield	
	AQ1	5,841,150		11/1998	Gonzalez et al.	
	AR1	5,846,889		12/1998	Harbison et al.	
	AS1	5,883,827		3/16/1999	Morgan	
	AT1	5,920,788		7/1999	Reinberg	

RE-2 2002
TECHNOLOGY CENTER 2800.

RECEIVED
SEP - 2 2003
TECHNOLOGY CENTER 2800



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U. S. Patent and Trademark Office: U. S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	09/988,627
				Filing Date	November 20, 2001
				First Named Inventor	Glen Hush
				Art Unit	2824
				Examiner Name	N. Nguyen
				Attorney Docket Number	M4065.0478/P478
Sheet	2	of	3		

NTN	AU1	5,998,066	12/1999	Block et al.	
	AV1	6,072,716	6/2000	Jacobson et al.	
	AW1	6,077,729	6/2000	Harshfield	
	AX1	6,117,720	9/2000	Harshfield	
	AY1	6,143,604	11/2000	Chiang et al.	
	AZ1	6,177,338	1/2001	Liaw et al.	
	BA1	6,191,972	2/20/2001	Miura et al.	
	BB1	6,191,989	2/20/2001	Luk et al.	
	BC1	6,236,059	5/2001	Wolstenholme et al.	
	BD1	6,243,311	6/5/2001	Keeth	
	BE1	6,297,170	10/2001	Gabriel et al.	
	BF1	6,300,684	10/2001	Gonzalez et al.	
	BG1	6,316,784	11/2001	Zahorik et al.	
	BH1	6,329,606	12/2001	Freyman et al.	
	BI1	6,350,679	2/2002	McDaniel et al.	
	BJ1	6,376,284	4/2002	Gonzalez et al.	
	BL1	6,391,688	5/2002	Gonzalez et al.	
	BM1	6,414,376	7/2002	Thakur et al.	
	BN1	6,423,628	7/2002	Li et al.	
	BO1	6,462,981	10/08/2002	Numata et al.	
	BP1	6,469,364	10/2002	Kozicki	
	BQ1	6,473,332	04/04/01	Ignatiev et al.	
NTN	BR1	6,487,106	11/26/2002	Kozicki	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ² -Number ³ -Kind Code ⁴ (if known)			
NTN	BA	56126916	10/19981	Akira et al.	
NTN	BB	EP 1 109 170 A2	6/20/2001	Kabushiki Kaisha Toshiba	

Examiner Signature	<i>Nam Nguyen</i>	Date Considered	2/16/03
--------------------	-------------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0851-0031

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO				C mplete if Kn wn	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	09/988,627
				Filing Date	November 20, 2001
				First Named Inventor	Glen Hush
				Group Art Unit	2824
				Examiner Name	N. Nguyen
				Attorney Docket Number	M4065.0483/P483
Sheet	3	of	3		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²		
NPN	CA	Axon Technologies Corporation, TECHNOLOGY DESCRIPTION: Programmable Metalization Cell(PMC), pp. 1-6 (Pre-May 2000).			
	CB	Helbert et al., Intralevel hybrid resist process with submicron capability, SPIE Vol. 333 SUBMICRON LITHOGRAPHY, pp. 24-29 (1982).			
	CC	Hill, DISSERTATION: Materials characterization of Silver Chalcogenide Programmable Metalization Cells, Arizona State University, pp. Title page-114 (UMI Company, May 1999).			
	CD	Hirose et al., High Speed Memory Behavior and Reliability of an Amorphous As ₂ S ₃ Film Doped Ag, PHYS. STAT. SOL. (a) 61, pp. 87-90 (1980).			
	CE	Holmquist et al., Reaction and Diffusion in Silver-Arsenic Chalcogenide Glass Systems, 62 J. AMER. CERAM. SOC., No. 3-4, pp. 183-188 (March-April 1979).			
	CF	Huggett et al., Development of silver sensitized germanium selenide photoresist by reactive sputter etching in SF ₆ , 42 APPL. PHYS. LETT., No. 7, pp. 592-594 (April 1983).			
	CG	Kawaguchi et al., Mechanism of photosurface deposition, 164-166 J. NON-CRYST. SOLIDS, pp. 1231-1234 (1993).			
	CH	Kolobov and Elliott, Photodoping of Amorphous Chalcogenides by Metals, Advances in Physics, Vol. 40, No 5, 625-684 (1991).			
	CI	Kozicki, et al., "Applications of Programmable Resistance Changes In Metal-doped Chalcogenides", Proceedings of the 1999 Symposium on Solid State Ionic Devices, Editors - E.D. Wachsman et al., The Electrochemical Society, Inc., 1 - 12 (1999).			
	CJ	Kozicki, et al., Nanoscale effects in devices based on chalcogenide solid solutions, Superlattices and Microstructures, 27, 485-488 (2000).			
	CK	Kozicki, et al., Nanoscale phase separation in Ag-Ge-Se glasses, Microelectronic Engineering, vol. 63/1-3, 155-159 (2002).			
	CL	M.N. Kozicki and M. Mitkova, Silver incorporation in thin films of selenium rich Ge-Se glasses, Proceedings of the XIX International Congress on Glass, Society for Glass Technology, 226-227 (2001).			
	CM	McHardy et al., The dissolution of metals in amorphous chalcogenides and the effects o electron and ultraviolet radiation, 20 J. PHYS. C.: SOLID STATE PHYS., pp. 4055-4075 (1987)f			
	CN	Owen et al., Metal-Chalcogenide Photoresists for High Resolution Lithography and Sub-Micron Structures, NANOSTRUCTURE PHYSICS AND FABRICATION, pp. 447-451 (M. Reed ed. 1989).			
	CO	Shimizu et al., The Photo-Erasable Memory Switching Effect of Ag Photo-Doped Chalcogenide Glasses, 46 B. CHEM SOC. JAPAN, No. 12, pp. 3662-3365 (1973).			
NPN	CP	Scheuerlein R. et al., A 10ns Read and Write Non-Volatile Memory Array Using a Magnetic Tunnel Junction and FET Switch in each Cell, Digest of Technical Papers. 2000 IEEE Int'l Solid-State Circuits Conference, Session 7, Paper TA 7.2, 8 February 2000, pages 128-129.			

Examiner Signature	<i>Nam Nguyen</i>	Date Considered	2/10/2009
-----------------------	-------------------	--------------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.